DOOSAN Document Transmittal

Upper Trishuli-1 HEP (216MW)

Date	DT No.:	SHEET
2022-12-25	UT1-HEP-DHI-PC-D-0116	1 OF 1

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SUBJECT	Submission of Review Note RN-0407, RN-0409 and RN-0411		

S. N.	REVIEW NOTE NO.	REVIEW STATUS	DWG. / DOC. NO.	REV.	DWG. TITLE / DOC. DESCRIPTION	REMARK
1	RN-0407	RR	UT1-C-030-CVL-DD-40015	0	Detail Design Description - Desander Basin	1 SHEET
2	RN-0409	RR	UT1-C-030-CVL-DC-52003	0B	Numerical Analysis for Hydraulic Performance and Sediment Deposition of Desander Basin	2 SHEET
3	RN-0411	RR	UT1-C-040-CVL-DG-55001	0A	Layout Drawing of Air Vent Tunnel for Surge Tank	1 SHEET
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Received by :

Date :

Legend of Review Status
A : APPROVED
AN : APPROVED AS NOTED
RR : RETURN FOR RESUBMISSION
FI : FOR INFORMATION

DHI STAMP

Doosan Enerbility Co., Ltd
DOOSAN Enerbility
Branch Office Nepal

Issued by Doosan Enerbility

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Doosan Enerbility Co., Ltd.

Discipline : Civil

UPPER TRISHULI-1 HEP (216MW)

Client	**Nepal Water and Energy Development Company Private Limited**
Owner's Engineer	**Tractebel Engineering GmbH / Jade Consult**

REVIEW NOTE

Contractor	**Doosan Enerbility**		
Title of the Document	Layout Drawing of Air Vent Tunnel for Surge Tank		
Document No.	UT1-C-040-CVL-DG-55001	Revision	0A
Date of Documents	28.10.2022	Received Date	15.12.2022
Transmittal Form No.	UT1-HEP-DHI-D-0533		
Previous Review Date/Status	N/A	Prev. Review Note No.	N/A
Review Note No.	**RN-0411**	**Present Review Date**	**24.12.2022**
		Present Review Status	**RR**

A: Approved AN: Approved as Noted RR: Returned for Resubmission FI: For Information, only

Comments

1. A portal structure including gate shall be foreseen at the portal of the Air/ Ventilation Tunnel and shall be shown in the document under this review, see also RN-0314, comment 11, dated 02.11.2022.
2. Comments regading rock support and structures of the surge tank are not subject to this RN.
3. The transition zone between regular tunnel cross section and surge chamber shall be shown in more detail with sections and plan views as it will be constructed, see also RN-0314, annex 1&2, dated 02.11.2022.
4. Dimensions of the drainage trench as required and might to be adjusted.
5. Thickness of pavementconcrete shall be T=300mm as per contractual design and a detail shall be shown; reinforcement layer, joints and max. joint distance.
6. Additional note on drawing: Final pavement concrete shall be placed after finalization of other construction works.
7. The EPC Contractor shall verify if any infrastructure for later O&M should be foreseen e.g. cables, pipes for pressurized air, water (in & out), etc.

Topographic related comments:

1. The 40m radius shall be shown in left portion of plan drawing with subtended angle 116.614° with intersection coordinate N 3107207.1659, E 619209.2446.
2. The gradient of tunnel shall be corrected 13.679% instead of 13.535% in all corresponding drawing.
3. The Plan layout drawing of surge tank and air vent tunnel for surge tank shall be symmetrically oriented.
4. The location of section A-A shall be shown in plan drawing.

Disclaimer:

Any approval will not release the Contractor from any of his obligations under the Contract. Despite the Engineer's approval the Contractor remains fully responsible for design, calculation, dimensioning, supply, and installation without limitations.

Sebastian Beck, CDE

Ram Giri, Surveyor